METHOD AND DEVICE FOR INTRODUCING A SAMPLE INTO AN ELECTROPHORETIC APPARATUS

ABSTRACT OF THE DISCLOSURE

A method and device for introducing a sample, such as a nucleic acid sample, into an electrophoretic apparatus is provided in which the sample is introduced into the electrophoretic apparatus in the presence of a magnetic field. In a particular embodiment, the electrophoretic apparatus can include a nucleic acid sequencer. The sample can be introduced into the electrophoretic apparatus electrokinetically. The magnetic field attracts one or more magnetic microparticles that can be suspended or otherwise provided in the sample. The nucleic acid sample can be bound to one or more magnetic microparticles. In particular embodiments, the microparticles can be used to purify dye terminator sequencing reactions. The magnetic field can be formed by a rare earth magnet, such as neodymium, or by an electromagnet, or other suitable means. In particular embodiments, the sample can be injected into a nucleic acid sequencer by capillary electrophoresis and sequenced by the sequencer.